

State of Wisconsin  
Department of Natural Resources  
Box 7921  
Madison, Wisconsin 53707

EXCESS EMISSION REPORT - OPACITY  
Form 4500-125 2-92

Note: Completion of this form is required  
pursuant to chapter NR 439, Wis. Adm. Code.

Date Received by DNR

RECEIVED

PART I. FACILITY INFORMATION

Name of Company Rockwell Lime Company		1 2 3 4 QTR. 19 <u>2004</u>	MAY 04 2004
Address 4110 Rockwood Road Manitowoc, WI 54220		Cert./CEA <u>2/88</u> (date)	AIR ENFORCEMENT BRANCH, U.S. EPA, REGION 5
Manufacturer/Model Number Dynatron 1100M		Stack/Process S11/P33 #1K10	Emission Limit <u>10%</u> Total Source Operating Time in Quarter <u>120,210</u> (mins)

PART II. CAUSES OF EXCESS EMISSIONS (EE)

	Duration of EE (mins)	% of Operating Time <sup>1</sup>
A. Startup/Shutdown		
B. Soot Blowing		
C. Control Equipment Malfunction		
D. Process Malfunction		
E. Other Known Causes		
F. Unknown Causes		
G. Total (A + B + ...F)		2

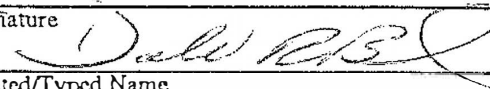
PART III. CAUSES OF CEMS DOWNTIME

	Downtime (mins)	% of Operating Time <sup>1</sup>
A. Monitor Equipment Malfunction		
B. Non-Monitor Equipment Malfunction		
C. QA/QC Calibration	30	0.025%
D. Other Known Causes		
E. Unknown Causes		
F. Total (A + B + ...E)	30	2 0.025%

<sup>1</sup> [EE (mins) or Downtime (mins) + Total Operating Time] x 100

<sup>2</sup> If the total duration of excess emissions is greater than 3% or the total CEMS downtime is greater than 5%, then both this Unit Summary Report and the Complete Excess Emission Report shall be submitted. If both conditions are satisfied, then only this Unit Summary Report and the quarterly audit shall be submitted.

I certify that the information contained in this report is true, accurate, and complete.

Signature 	Title V.P. of Operations
Printed/Typed Name Donald R. Brisch	Telephone Number (incl. Area Code) (920) 682-7771
	Date Signed 4/28/04

LEAVE BLANK FOR DNR USE ONLY

Recommendation

ARD  
EDMS

DNR Reviewer \_\_\_\_\_

Date Reviewed \_\_\_\_\_



# QUARTERLY FUEL SAMPLING & ANALYSIS REPORT

Date: April 27, 2004

Time Period: 1st Quarter of 2004

Company: Rockwell Lime Company

Submitted By: Donald R. Brisch

Process: P33 - #1 Kiln

**RECEIVED**

MAY 04 2004

AIR ENFORCEMENT BRANCH,  
U.S. EPA, REGION 5

---

	January	February	March
Amt. Solid Fuel Blend Burned (Tons)	782.95	697.50	675.12
Wt. Avg. % Ash Content Solid Fuel Blend	8.31	8.30	6.57
Wt. Avg. % Sulfur Content Solid Fuel Blend	2.22%	2.76%	3.10%
Wt. Avg. Heat Content Solid Fuel Blend (BTU/Lb)	12,365	12,785	12,690
Wt. Avg. SO2 Emission Rate (Lbs/MMBTU)	3.00	3.68	4.08



State of Wisconsin  
Department of Natural Resources  
Box 7921  
Madison, Wisconsin 53707

EXCESS EMISSION REPORT - OPACITY  
Form 4500-125 2-92

Note: Completion of this form is required  
pursuant to chapter NR 439, Wis. Adm. Code.

Date Received by DNR

PART I. FACILITY INFORMATION

Name of Company

Rockwell Lime Company

Address

4110 Rockwood Road

Manitowoc, WI 54220

Manufacturer/Model Number

Dynatron 1100M

Stack/Process

S11/P36

#2 K110

1 2 3 4 QTR. 19 2004

Cert./CEA 2/88 (date)

Emission Limit 10%

Total Source Operating Time in Quarter

RECEIVED

MAY 04 2004

AIR ENFORCEMENT BRANCH  
U.S. EPA REGION 5

PART II. CAUSES OF EXCESS EMISSIONS (EE)

Duration of EE (mins)

% of Operating Time<sup>1</sup>

A. Startup/Shutdown

B. Soot Blowing

C. Control Equipment Malfunction

D. Process Malfunction

E. Other Known Causes

F. Unknown Causes

G. Total (A + B + ...F)

PART III. CAUSES OF CEMS DOWNTIME

Downtime (mins)

% of Operating Time<sup>1</sup>

A. Monitor Equipment Malfunction

B. Non-Monitor Equipment Malfunction

C. QA/QC Calibration

D. Other Known Causes

E. Unknown Causes

F. Total (A + B + ...E)

<sup>1</sup> [EE (mins) or Downtime (mins) + Total Operating Time] x 100

<sup>2</sup> If the total duration of excess emissions is greater than 3% or the total CEMS downtime is greater than 5%, then both this Unit Summary Report and the Complete Excess Emission Report shall be submitted. If both conditions are satisfied, then only this Unit Summary Report and the quarterly audit shall be submitted.

I certify that the information contained in this report is true, accurate, and complete.

Signature

Title

V.P. of Operations

Printed/Typed Name

Donald R. Brisch

Telephone Number (incl. Area Code)

(920) 682-7771

Date Signed

4/28/04

LEAVE BLANK FOR DNR USE ONLY

Recommendation

DNR Reviewer

Date Reviewed

1.  $2x^2 + 3x - 5$   
 2.  $x^2 - 4x + 7$   
 3.  $3x^2 - 2x + 1$   
 4.  $x^2 + 5x - 6$   
 5.  $4x^2 - 7x + 2$   
 6.  $x^2 - 9x + 14$   
 7.  $2x^2 + 11x + 12$   
 8.  $x^2 - 6x + 8$   
 9.  $3x^2 - 8x + 5$   
 10.  $x^2 + 7x - 10$

# QUARTERLY FUEL SAMPLING & ANALYSIS REPORT

**RECEIVED**

MAY 04 2004

AIR ENFORCEMENT BRANCH,  
U.S. EPA, REGION 5

Date: April 27, 2004  
Time Period: 1st Quarter of 2004  
Company: Rockwell Lime Company  
Submitted By: Donald R. Brisch  
Process: P36 - #2 Kiln

---

	January	February	March
Amt. Solid Fuel Blend Burned (Tons)	1,805.87	1,828.82	1,527.92
Wt. Avg. % Ash Content Solid Fuel Blend	8.31	8.30	7.90
Wt. Avg. % Sulfur Content Solid Fuel Blend	2.19%	2.43%	2.42%
Wt. Avg. Heat Content Solid Fuel Blend (BTU/Lb)	12,310	12,420	12,215
Wt. Avg. SO2 Emission Rate (Lbs/MMBTU)	3.26	3.26	3.21



# ROCKWELL LIME COMPANY

## COMS QUARTERLY AUDIT REPORT

DATE OF AUDIT: 31-Mar-04

PERIOD ENDING DATE: 31-Mar-04

AUDIT CONDUCTED BY: JJ &amp; JW

SOURCE UNIT NO.: NO. 2 KILN

PLANT LOCATION: ROCKWOOD, WI

OPACITY MONITOR MFG: DYNATRON INC. MODEL #: 1100M SERIAL #: 1100M-0294

MONITOR PATHLENGTH: 72 INCHES EMISSION OUTLET PATHLENGTH: 72 INCHES

MONITORING SYSTEM OUTPUT PATHLENGTH CORRECTED? YES ☒ NO ☐

### CALIBRATED NEUTRAL DENSITY FILTER VALUES

	ACTUAL OPTICAL DENSITY "A" OPACITY	FILTER SERIAL NO.	PATH ADJUSTED OPTICAL DENSITY "A" OPACITY
LOW-RANGE	8.50	ND-1515	8.50
MID-RANGE	20.60	ND-1516	20.60
HIGH RANGE	34.60	ND-1517	34.60

RUN NUMBER	"A" CALIBRATION FILTER VALUE (PATH-ADJUSTED PERCENT OPACITY)	"B" INSTRUMENT READING (PERCENT OPACITY)	"A"- "B" ARITHMETIC DIFFERENCE (OPACITY), PERCENT		
			LOW	MID	HIGH
1 - LOW	8.50	8.70	-0.20		
2 - MID	20.60	21.10		-0.50	
3 - HIGH	34.60	34.40			0.20
4 - LOW	8.50	8.80	-0.30		
5 - MID	20.60	21.10		-0.50	
6 - HIGH	34.60	34.30			0.30
7 - LOW	8.50	8.80	-0.30		
8 - MID	20.60	21.10		-0.50	
9 - HIGH	34.60	34.40			0.20
10 - LOW	8.50	8.70	-0.20		
11 - MID	20.60	21.10		-0.50	
12 - HIGH	34.60	34.30			0.30
13 - LOW	8.50	8.80	-0.30		
14 - MID	20.60	21.10		-0.50	
15 - HIGH	34.60	34.30			0.30

TOTALS:	-1.30	-2.50	1.30
ABSOLUTE MEAN DIFFERENCE:	0.26	0.50	0.26
STANDARD DEVIATION:	0.05	0.00	0.05
CONFIDENCE COEFFICIENT:	0.07	0.00	0.07

CALIBRATION ERROR (%):	0.33	0.50	0.33
------------------------	------	------	------

